

## ABSTRACT OF THE DISCLOSURE

A header of a nano storing apparatus is disclosed. If some cantilevers of the header are defective, an additional extra cantilever array is substitutively used.

- 5 The header of a nano storing apparatus including: a cantilevery array including cantilevers each having a probe that is able to read and write information of the 'n' number of rows and the 'm' number of columns, an X-redundancy cantilever array to be used as a substitute when cantilever probes of a specific row in the cantilever array are defective; a Y-redundancy cantilever array to be used as a
- 10 substitute when cantilever probes of a specific column in the cantilever array are defective; and a header controller for controlling each part.